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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,345	07/25/2003	George R. Borden IV	7146.0153	2320	
47915 75	90 05/17/2005		EXAMINER		
•	VILHAUER, MCCLUI	ROSWELL, MICHAEL			
1600 ODS TOV 601 SW SECON			ART UNIT	PAPER NUMBER	
	PORTLAND, OR 97204			2173	

DATE MAILED: 05/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/627,345	BORDEN, GEORGE R.					
Office Action Summary	Examiner	Art Unit					
	Michael Roswell	2173					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MONT , cause the application to become AB	eply be timely filed  (30) days will be considered timely HS from the mailing date of this of ANDONED (35 U.S.C. § 133).	y. ommunication.				
Status							
1) Responsive to communication(s) filed on <u>03 January 2005</u> .							
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
closed in accordance with the practice under E	ex parte Quayle, 1955 C.D.	11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>11-30</u> is/are pending in the application	n.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
· · · · · · · · · · · · · · · · · · ·	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>11-30</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers		•					
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	caminer. Note the attached	Office Action or form PT	O-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)		ummary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		)/Mail Date formal Patent Application (PTC	D-152)				
Paper No(s)/Mail Date <u>20051210</u> .	6) 🔲 Other:		•				

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Application/Control Number: 10/627,345

Art Unit: 2173

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 11, 12, 15, 19-22, 25, 29, and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Vallone et al (US Patent 6,642,939), hereinafter Vallone.

Regarding claim 11, Vallone teaches a first input for navigating upward through a hierarchical structure, a second input for navigating downward through the hierarchical structure (both taught as the use of a remote control of Fig. 14 for navigating a displayed list upwards and downwards, at col. 15, lines 32-46, the lists being displayed in Figs. 16-19), a first aural signal associated with a first input having a first characteristic indicating to a user upward navigation through the hierarchical structure, the first characteristic independent of the set of data from which upward navigation commences, and a second aural signal associated with a second input having a second characteristic indicating to a user downward navigation through the hierarchical structure, the second characteristic independent of the set of data from which downward navigation commences (taught as the generation of transitional sounds in response to a user navigating the interface with the remote control, at col. 24, lines 49-55, and col. 8, lines 37-40).

Regarding claim 12, Vallone teaches the first and second inputs being respective buttons, taught as the use of the buttons on a remote control for navigating the user interface, at col. 8, lines 37-40.

Regarding claim 15, Vallone teaches a third aural signal indicating to a user that an outer boundary of the hierarchical structure has been reached, taught as the generation of a warning sound that indicates to a user that they have attempted an action that is not allowed, such as moving the highlight bar to an area that does not exist, at col. 24, lines 49-55.

Regarding claim 19, Vallone teaches organizing the collection of data into a plurality of levels, each level including an associated hierarchical structure, taught as the navigation by the user through multiple interface levels, at col. 15, lines 32-46, and seen at Figs. 16-19.

Regarding claim 20, Vallone teaches including a third aural signal indicating to a user navigation to a different level, taught as the generation of transitional sounds in response to a user navigating the interface with the remote control, at col. 24, lines 49-55, and col. 8, lines 37-40, the levels being shown at col. 15, lines 32-46.

Regarding claim 21, Vallone teaches a first input for navigating from a current level to a sublevel of the current level, a second input for navigating from a current sublevel to the level (both taught as the use of a remote control of Fig. 14 for navigating a displayed list to different levels, using the "left" and "right" buttons, at col. 15, lines 32-46, the lists being displayed in Figs. 16-19), a first aural signal associated with a first input having a first characteristic indicating to a user navigation from a current level to a sublevel of the current level, the first

Art Unit: 2173

characteristic independent of the set of data from which level navigation commences, and a second aural signal associated with a second input having a second characteristic indicating to a user from a current sublevel to the level, the second characteristic independent of the set of data from which sublevel navigation commences (taught as the generation of transitional sounds in response to a user navigating the interface with the remote control, at col. 24, lines 49-55, and col. 8, lines 37-40).

Regarding claim 22, Vallone teaches the first and second inputs being respective buttons, taught as the use of the buttons on a remote control for navigating the user interface, at col. 8, lines 37-40.

Regarding claim 25, Vallone teaches a third aural signal indicating to a user that an outer boundary of the hierarchical structure has been reached, taught as the generation of a warning sound that indicates to a user that they have attempted an action that is not allowed, such as moving the highlight bar to an area that does not exist, at col. 24, lines 49-55.

Regarding claim 29, Vallone teaches organizing the collection of data into a plurality of levels, each level including an associated hierarchical structure, taught as the navigation by the user through multiple interface levels, at col. 15, lines 32-46, and seen at Figs. 16-19.

Regarding claim 20, Vallone teaches including third and fourth aural signals indicating to a user navigation upwards and downwards through the hierarchical structure, taught as the generation of transitional sounds in response to a user navigating the interface with the remote

control, at col. 24, lines 49-55, and col. 8, lines 37-40, the levels being shown at col. 15, lines 32-46.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13, 14, 23, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vallone and Auflick et al (US Patent 6,820,238), hereinafter Auflick.

Regarding claims 13 and 23, Vallone teaches an aural user interface for generating aural signals in response to user navigation in various directions through a hierarchical structure.

However, Vallone fails to explicitly teach the first and second inputs for such navigation being opposite sides of a rocker switch.

Auflick teaches a method for the navigation of a multimedia player with a hierarchical structure, as shown in Figs. 3 and 4. Furthermore, Auflick teaches the use of a directory rocker switch for navigating through the different directories in the hierarchical structure, at col. 3, lines 18-20.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Vallone and Auflick before him at the time the invention was made to modify the aural interface of Vallone to include the navigation by a rocker switch of Auflick in order to obtain a user interface that responds to user input by a rocker switch with aural output.

One would be motivated to make such a combination for the advantage of the small size and ease of use afforded by a rocker switch.

Regarding claims 14 and 24, while Vallone and Auflick have been shown to teach navigating an aural interface using a rocker switch, they both fail to explicitly teach continuous incremental navigation caused by constant depression of one side of the rocker switch.

However, it is notoriously well known in the art to continuously navigate a list or hierarchical structure by way of constant depression of a button or switch, as such has been implemented in various remote controls, televisions, compact disc players, and the like. The examiner takes OFFICIAL NOTICE of these teachings. Therefore, it would have been obvious to one of ordinary skill in the art to modify the aural interface of Vallone and Auflick to include continuous navigation by way of constant button depression, for the ease of use provided by a single button press.

Claims 16 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vallone.

Vallone teaches an aural user interface for generating aural signals in response to user navigation in various directions through a hierarchical structure. Vallone fails to explicitly teach the first characteristic of a first aural signal being identical to the second characteristic of the second aural signal. However, it is notoriously well known in the art to output the same sound for similar navigational or scrolling functions, as is found in Microsoft Internet Explorer's "Back"

and "Forward" buttons, and in the navigational directional pads for many cell phones. The examiner takes OFFICIAL NOTICE of these teachings. Therefore, it would have been obvious to one of ordinary skill in the art to modify the aural interface of Vallone to include similar first and second characteristics for the first and second aural signals, respectively. One would have been motivated to make such a combination for the advantage of notifying the user that their selected action is of a common type with a similar action, such as back/forward and up/down navigation operations.

Claims 17, 18, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vallone and McKiel, Jr. (US Patent 5,287,102), hereinafter McKiel.

Regarding claims 17 and 27, Vallone teaches an aural user interface for generating aural signals in response to user navigation in various directions through a hierarchical structure.

Vallone fails to explicitly teach first and second aural signals haing a location characteristic indicating to a user the relative position within the hierarchical structure of a selected data set.

McKiel teaches a method for aurally indicating user actions upon a hierarchical structure. Furthermore, McKiel teaches indicating to a user the relative position within the hierarchical structure of a selected data set, taught as the use of distinctive sounds or chords to notify the user of their location, at col. 5, lines 44-58.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Vallone and McKiel before him at the time the invention was made to modify the

aural interface of Vallone to include the locational aural information of McKiel in order to obtain an aural interface capable of notifying to a user their location within a hierarchy.

One would be motivated to make such a combination for the advantage of allowing a blind or visually impaired user to readily locate graphical elements on an interface. See McKiel, col. 3, lines 58-66.

Regarding claims 18 and 28, McKiel teaches the location characteristic of first and second aural signals being the frequency of the first and second characteristics, taught as the varying of sound output frequency based on the positional location of a user in a hierarchy, at col. 3, lines 57-65.

## Response to Arguments

Applicant's arguments with respect to claims 11-30 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

Application/Control Number: 10/627,345

**Art Unit: 2173** 

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Michael Roswell whose telephone number is (571) 272-4055. The

examiner can normally be reached on 8:30 - 6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Cabeca can be reached on (571) 272-4048. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Roswell 5/10/2005

RAYMOND J. BAYERL PRIMARY EXAMINER ART UNIT 2173

Page 9